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(54) Title: **LOW-TEMPERATURE, FLUORIDE FREE FIBER GLASS COMPOSITIONS AND PRODUCTS MADE USING SAME**

(57) **Abstract:** An essentially fluoride-free, boron-containing fiber glass composition has a forming window greater than 50°C and a forming temperature less than 1190°C, whereby it can substitute for conventional fluoride and boron-containing fiber glass composition without significantly changing operating parameters of the fiber forming process. The composition comprises: SiO₂ 50 - 54 weight percent, Al₂O₃ 12 - 15 percent, CaO 22 - 25 percent, MgO 1 - 4 percent, B₂O₃ 5 - 8 percent, Na₂O + K₂O less than 2 percent, Fe₂O₃ 0.1 - 0.5 percent, F₂ less than 0.1 percent.



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